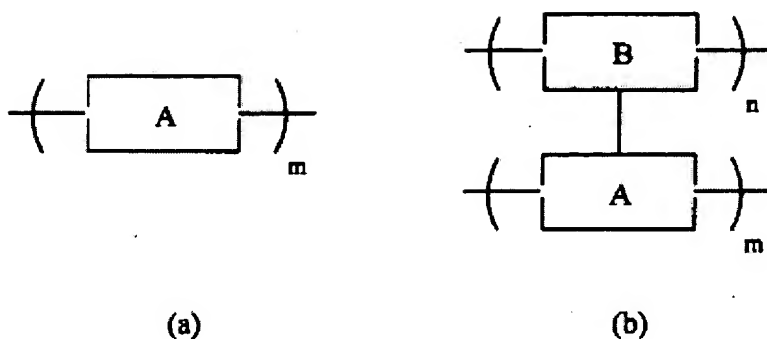


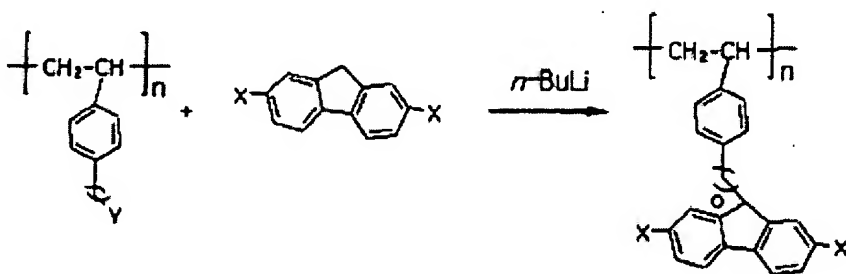
ABSTRACT

The invention relates to the ladder-type and blue light-emitting polymers with excellent thermal ~~heat~~ stability, which are prepared by either ~~polymerized either~~ grafting with blue luminescent monomers on the polymer backbones or polymerization of adding ~~fluorine to~~ styrene derivatives containing fluorene. The above blue light-emitting polymers have a high glass transition temperature and a 5%-weight-loss temperature above 400 °C. Accordingly these polymers can be used as blue luminescent materials in display devices, ~~devices and as luminescent cases for~~ home appliances or cellular phones.



Figures 1(a) and 1(b)

1.



2.

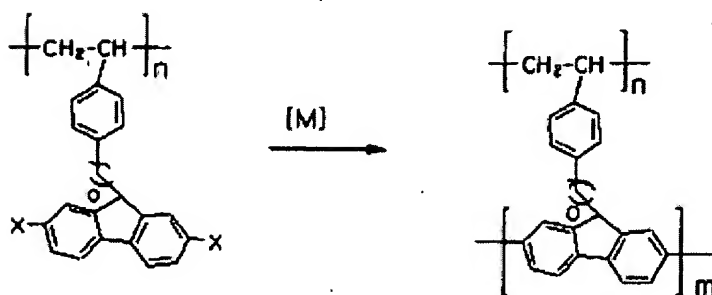


Figure 2: synthetic scheme of the ladder-type blue light-emitting polymer.

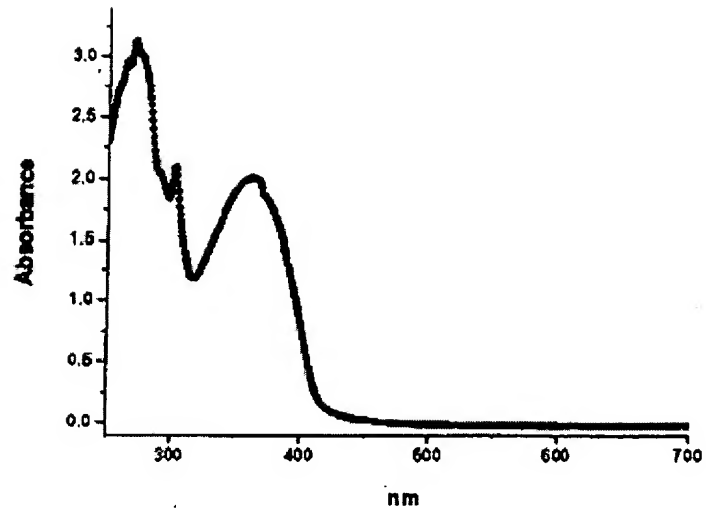


Figure 3: UV-VIS spectra

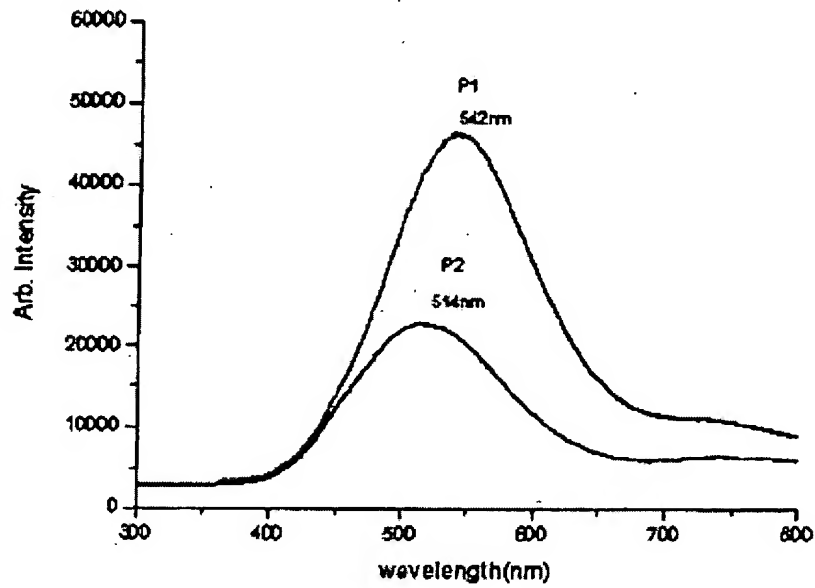


Figure 4: Photoluminescence spectra

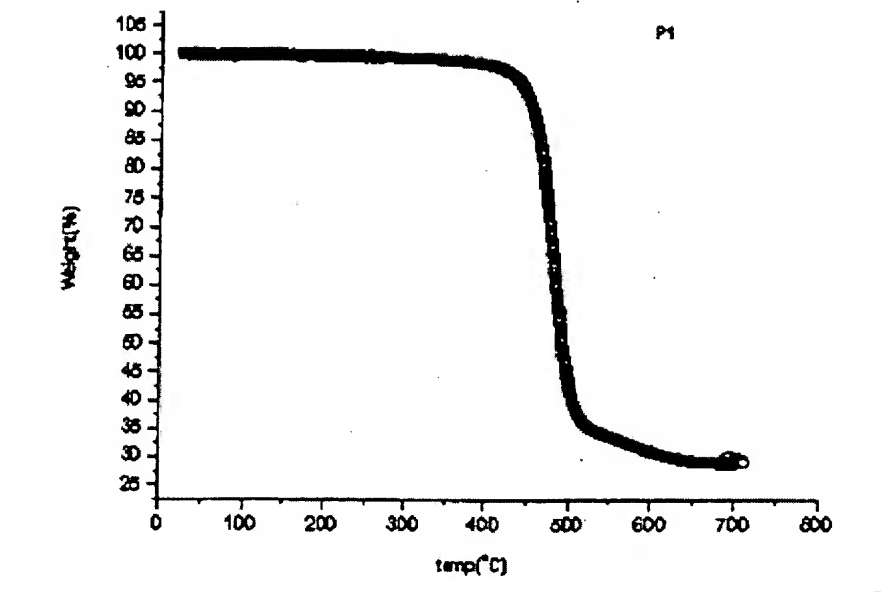


Figure 5: TGA of P1

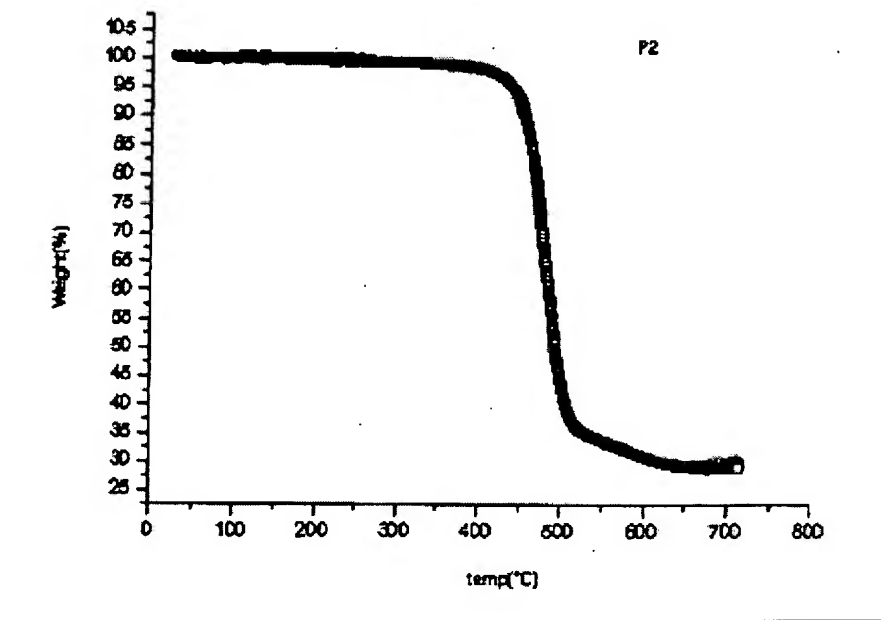


Figure 6: TGA of P2